

Attachment to  
Paper No 5

## Form PTO-1449 (modified)

Atty. Docket No.

Serial No.

UMIC:039USC1/DLP

09/801,346

List of Patents and Publications for Applicant's

Applicants:

Vladimir L. Makarov and John P. Langmore

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Filing Date:

March 6, 2001

Group:

1631

U.S. Patent Documents

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## U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date if App.
<i>JK</i>	A1	5,489,508	02/06/96	West <i>et al.</i>	<del>435</del>	<del>6</del>	03/24/93
	A2	5,503,980	04/02/96	Cantor	435	<del>6</del>	10/17/94
	A3	5,552,278	09/03/96	Brenner	<del>435</del>	<del>6</del>	07/25/94
	A4	5,599,675	02/04/97	Brenner	435	<del>6</del>	03/24/95
	A5	5,645,986	07/08/97	West <i>et al.</i>	435	<del>6</del>	11/12/93
	A6	5,686,245	11/11/97	West <i>et al.</i>	<del>435</del>	<del>6</del>	06/07/95
	A7	5,695,932	12/09/97	West <i>et al.</i>	<del>435</del>	<del>6</del>	05/13/93
	A8	5,714,330	02/03/98	Brenner <i>et al.</i>	<del>435</del>	<del>6</del>	06/21/96
	A9	5,741,677	04/21/98	Kozlowski <i>et al.</i>	<del>435</del>	<del>91.2</del>	06/07/95
	A10	4,942,124	6/17/90	Church	<del>435</del>	<del>6</del>	8/4/88
	A11	5,112,736	5/12/92	Caldwell <i>et al.</i>	435	<del>6</del>	6/14/89
	A12	5,149,625	9/22/92	Church <i>et al.</i>	<del>435</del>	<del>6</del>	3/28/90
	A13	5,714,318	2/3/98	Sagner <i>et al.</i>	<del>435</del>	<del>6</del>	2/2/94
	A14	5,750,341	5/12/98	Macevicz	<del>435</del>	<del>6</del>	4/17/95
	A15	5,693,613	6/17/97	Shay <i>et al.</i>	<del>435</del>	<del>6</del>	4/18/95
	A16	5,648,215	7/15/97	West <i>et al.</i>	<del>435</del>	<del>6</del>	9/28/94
	A17	5,686,306	11/11/97	West <i>et al.</i>	<del>435</del>	<del>346</del>	11/10/94
	A18	5,693,474	12/2/97	Shay <i>et al.</i>	<del>435</del>	<del>6</del>	6/7/95
	A19	5,707,795	1/13/98	West <i>et al.</i>	<del>435</del>	<del>5</del>	6/7/95
	A20	5,418,149	05-23-95	Gelfand <i>et al.</i>	<del>435</del>	<del>91.2</del>	
	A21	5,506,100	04-09-96	Surzycki <i>et al.</i>	<del>435</del>	<del>6</del>	06-01-93
<i>JK</i>	A22	5,604,098	02-18-97	Mead <i>et al.</i>	<del>435</del>	<del>6</del>	12-22-94

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**Foreign Patent Documents**

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
<del>///</del>	B1	WO 98/15644	04-16-98	PCT	<del>_____</del>	<del>_____</del>	
	B2	WO 98/15652	04-16-98	PCT	<del>_____</del>	<del>_____</del>	
	B3	WO 93/24654	12-9-93	PCT	<del>_____</del>	<del>_____</del>	
	B4	WO 90/13666	11-15-90	PCT	<del>_____</del>	<del>_____</del>	
	B5	WO 93/02212	02-04-93	PCT	<del>_____</del>	<del>_____</del>	
	B6	WO 93/21340	10-28-93	PCT	<del>_____</del>	<del>_____</del>	
	B7	WO 94/24313	10-27-94	PCT	<del>_____</del>	<del>_____</del>	
	B8	WO 96/32504	10-17-96	PCT	<del>_____</del>	<del>_____</del>	
	B9	WO 97/03210	01-30-97	PCT	<del>_____</del>	<del>_____</del>	
	B10	EP 0 415 755 A2	03-06-91	Europe	<del>_____</del>	<del>_____</del>	
	B11	EP 0 415 755 A3	08-28-91	Europe	<del>_____</del>	<del>_____</del>	
	B12	EP 0 415 755 B1	12-20-95	Europe	<del>_____</del>	<del>_____</del>	
	B13	EP 0 439 182 A2	07-31-91	Europe	<del>_____</del>	<del>_____</del>	
	B14	EP 0 439 182 A3	10-16-91	Europe	<del>_____</del>	<del>_____</del>	
	B15	EP 0 439 182 B1	04-24-96	Europe	<del>_____</del>	<del>_____</del>	
	B16	EP 0 497 272 A1	08-05-92	Europe	<del>_____</del>	<del>_____</del>	
	B17	EP 0 497 272 B1	10-04-95	Europe	<del>_____</del>	<del>_____</del>	
	B18	WO 98/39485	09-11-98	PCT	<del>_____</del>	<del>_____</del>	
	B19	WO 86/07612	12-31-86	PCT	<del>_____</del>	<del>_____</del>	
	B20	WO 95/06752	03-09-95	PCT	<del>_____</del>	<del>_____</del>	
	B21	EP 0 608 737 A1	01-17-94	Europe	<del>_____</del>	<del>_____</del>	
<del>///</del>	B22	EP 0 684 315 A1	03-13-95	Europe	<del>_____</del>	<del>_____</del>	

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1631U.S. Patent Documents  
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See Page 2Other Art  
See Pages 3-4**Other Art (Including Author, Title, Date Pertinent Pages, Etc.)**

Exam. Init.	Ref. Des.	Citation
	C1	Broude <i>et al.</i> , "Enhanced DNA sequencing by hybridization," <i>Proc. Natl. Acad. Sci. USA</i> , 91:3072-3076, April, 1994.
	C2	Fu <i>et al.</i> , "A DNA sequencing strategy that requires only five bases of known terminal sequence for priming," <i>Proc. Natl. Acad. Sci. USA</i> , 92:10162-10166, October, 1995.
	C3	Fu <i>et al.</i> , "Sequencing double-stranded DNA by strand displacement," <i>Nucl. Acids Res.</i> , 25(3):677-679, February, 1997.
	C4	Makarov <i>et al.</i> , "Long G tails at both ends of human chromosomes suggest a C strand degradation mechanism for telomere shortening," <i>Cell</i> , 88:657-666, March 7, 1997.
	C5	Wellinger <i>et al.</i> , "Evidence for a new step in telomere maintenance," <i>Cell</i> , 85:423-433, 1996.
	C6	Wellinger <i>et al.</i> , "Origin activation and formation of single strand TG <sub>1-3</sub> tails occur sequentially in late S phase on a yeast linear plasmid," <i>Mol. Cell. Biol.</i> , 13:4057-4065, 1993.
	C7	Wellinger <i>et al.</i> , " <i>Sacharomyces</i> telomeres acquire single-strand TG <sub>1-3</sub> tails late in S phase," <i>Cell</i> , 72:51-60, 1993.
	C8	Wellinger <i>et al.</i> , "Use of non-denaturing Southern hybridization and two dimensional agarose gels to detect putative intermediates in telomere replication in <i>Sacharomyces cerevisiae</i> ," <i>Chromosoma</i> , 102, S150-S156, 1992.
	C9	Ehrlich, <i>et al.</i> "The specificity of pancreatic deoxyribonuclease," <i>Eur J Biochem.</i> 40:143-147, 1973.
	C10	Kovacs <i>et al.</i> , "The generation of a single nick per plasmid molecule using restriction endonucleases with multiple recognition sites," <i>Gene</i> , 29:63, 1984.
	C11	Meyer and Geider, "Bacteriophage fd gene II-protein. I. Purification, involvement in RF replication, and the expression of gene II," <i>J. Biol. Chem.</i> , 254:12636, 1979.
	C12	Olsen <i>et al.</i> , "Investigation of the inhibitory role of phosphorothioate internucleotidic linkages on the catalytic activity of the restriction endonuclease <i>EcoRV</i> ," <i>Biochem.</i> , 29:9546, 1990.
	C13	Co-pending U.S. Patent Application Serial No. 08/811,804 filed March 5, 1997 (Attorney Docket No. UMIC:026--1).

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Other Art

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**Other Art (Including Author, Title, Date Pertinent Pages, Etc.)**

Exam. Init.	Ref. Des.	Citation
<i>JP</i>	C14	Labeit <i>et al.</i> , "Laboratory methods: A new method of DNA sequencing using deoxynucleotide $\alpha$ -thiotriphosphates," <i>DNA</i> , 5(2):173-177, 1986.
	C15	Porter <i>et al.</i> , "Direct PCR sequencing with boronated nucleotides," <i>Nucl. Acids Res.</i> , 25(8):1611-1617, 1997.
	C16	Lindahl, "DNA Glycosylases, Endonucleases for Apurinic/Apyrimidinic Sites, and Base Excision-Repair," <i>Prog. Nucleic Acid Res. Mol. Biol.</i> 22:135-192, 1979.
	C17	Partial International Search Report dated August 17, 1998 (PCT/US98/04423) (UMIC:027P).
	C18	U.S. Patent Application Serial No. 09/035,677 filed March 5, 1997 (Abandoned; Attorney Docket No.UMIC:027).
	C19	Chiu <i>et al.</i> , "Differential dependence on chromatin structure for copper and iron induction of DNA double-strand breaks," <i>Biochemistry</i> 34:2653-2661, 1995.
	C20	Dear and Cook, "Happy mapping: linkage mapping using a physical analogue of meiosis," <i>Nucl. Acids Res.</i> 21:13-20, 1993.
	C21	Fitzgerald <i>et al.</i> , "Rapid shotgun cloning utilizing the two base recognition endonuclease CviJI," <i>Nucl. Acids Res.</i> 20:3753-3762, 1992.
	C22	Gish and Eckstein, "DNA and RNA sequence determination based on phosphorothioate chemistry," <i>Science</i> 240: 1520-1522, 1988.
	C23	Grecz <i>et al.</i> , "Freeze-thaw injury: evidence for double-strand breaks in Escherichia coli DNA," <i>Biochem. Biophys. Res. Comm.</i> 93:1110-1113, 1980 (Medline abstract).
	C24	Matsugo <i>et al.</i> , "DNA strand scission and cell-killing activity of hydroperoxynaphthalimide derivatives upon photoirradiation," <i>Nucl. Acids Symp. Ser.</i> 25:109-110, 1991 (HCA abstract).
<i>JP</i>	C25	International Search Report dated January 12, 1999 (PCT/US98/04423) (UMIC:027P).

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